

Non-Invasive Cardiology

Specification Sheet

MUSE

Cardiology Information System

MUSE® server with version 5E (Windows® Server™ 2003)				
Feature	Specification	MUSE CV Options		
		Tower Server	Rack-Ready Server	Rack Mounted Server
Model number	Compaq ProLiant ML370G3	X	X	X
Processor	2.8GHz Intel Xeon Processor	1	1	1
L2 cache	512KB, 2nd Level ECC, full speed	X	X	X
System memory	PC-133 Registered ECC SDRAM	1GB	1GB	1GB
Hard drive usable capacity	GB	72	540	540
Hard drive – type	Wide Ultra3 SCSI 10k rpm (# of Drives x Size of Drives)	3 x 36 GB	6 x 146	6 x 146
	Hot Swappable	X	X	X
	Hot Spare	–	X	X
Hard drive fault tolerance	RAID Level 5	X	X	X
RAID Controller	64bit/66MHz SCSI Smart Array Controller	X	X	X
Video	Integrated ATI Rage XL Video Controller with 8 MB SDRAM Video Memory	X	X	X
Network	Redundant Compaq NC3123 Fast Ethernet NIC 10/100 WOL	X	X	X
CD ROM	48x, IDE	X	X	X
Power supplies	Two (2) redundant, hot-swappable	X	X	X
Serial ports	Serial MUX	8 ports	8 ports	8 ports
Tape backup	AIT-2 tape drive, 50/100 GB	X	X	X
Server Management	Insight Manager	X	X	X
Server Dimensions	Height	46,88 cm	22,07 cm	88,90 cm
	Width	22,07 cm	48,26 cm	60 cm
	Depth	71,12 cm	65,43 cm	90 cm
	Weight (without drives, no RPS)	31,75 kg	29,48 kg	–
Rack Shipping Dimensions	Height	–	–	143,8 cm
	Width	–	–	81,3 cm
	Depth	–	–	121,9 cm
	Weight	–	–	102 kg
Input Voltage	100-120 VAC and 220-240 VAC	X	X	X
Server Rated Input Power	550W Max	X	X	X
UPS Rated	3KVA	–	Opt.	–
	1,5KVA	X	–	–



GE Healthcare Supplied Workstation Specifications

Feature	Specification
Computer model	Compaq EVO Desktop D530 SFF
Processor	Intel Pentium® 4 2.66 GHz
L2 cache	512 KB
System memory	DDR 256 MB SDRAM, non-ECC
Hard drive capacity	40 GB SMART III Ultra ATA/100 VM Network Connection
Chipset	INTEL® 865G
Front Side BUS	533 MHz
Audio	Integrated AC97 Audio with Internal Speaker
Video	Intel 82845G, 1280 x 1024 Max @ 60-120 Hz
Network	Integrated Intel® PRO/100 VM Network Connection
CD-ROM drive	48x IDE CD-ROM
Dimensions	Height: 10 cm (3.95 in.) Depth: 38.3 cm (15.1 in.) Width: 33.8 cm (13.3 in.) Weight: 10.07 kg (22.2 lbs) approx.
Input Voltage	120/220VAC
Rated Input Power	185 Watt Max

Customer-Supplied Hardware

Minimum Specifications			
	FileServer	Client	HIS Interface
CPU	Intel Xeon (2,8 GHz with 512k L2 Cache)	Pentium PIII 600 MHz	Pentium P4 1,8 GHz
RAM	1 GB	256 Mb	256 Mb
Hard Disk	10 GB C: partition (system partition) 60 GB D: partition (database partition) – see “System Sizing Information” in the pre-installation manual for more information	4 GB or more	20 GB or more 10 GB C: partition (system partition) 10 GB or more D: partition (database partition)
Network Controller	10/100 MB Ethernet or 1 GB Ethernet	10/100 MB Ethernet or 1 GB Ethernet	10/100 MB Ethernet or 1 GB Ethernet
Diskette Drive	1.44 MB	1.44 MB	1.44 MB
CD or DVD-ROM	DVD – 8X	CD 48x IDE CD-ROM Drive	48x IDE CD-ROM Drive
Graphics	Capable of 1024 x 768 resolution	Capable of 1280 x 1024 res.	Capable of 1024 x 768 res.
Serial Ports	2	1 or none – only required for modem support	1 or none – only required for modem support (if network connection not available)
Form Factor	Tower or Rack	Desktop or Mini Tower	Desktop, Mini Tower
Optional Hardware Requirements			
Digi AccelePort 8p PCI Adaptor w/multiplex cable.			
<ul style="list-style-type: none"> • Configured for COM 3 – COM 10 • Required for CSI or Fax modems attached to file server 			
Software Requirements			
File Server	Client	HIS Interface	
Operating System Windows 2000 Server, SP4 or Windows Server 2003	Operating System Windows 2000 Professional or Windows XP Professional	Operating System Windows 2000 Server, SP4 or Windows Server 2003, Windows NT, SP6a	
Application Server Configuration, as a workgroup or Member Server in an existing Domain. GE does not support being a Domain controller.		Application Server Same as File Server	
Required network, video, tape drive, and other drivers (typically provided as part of the operating system).		Required Network Same as File Server	
Drive Partition Information 10 GB C: Partition (system partition with OS, MUSE and third party software)		Drive Partition Information 10 GB C: Partition (system partition with O/S, MUSE and third party software)	
60 GB or more D: Partition (database and system (database configuration files). See “System Sizing Information” in the pre-installation manual for more information.		10 GB or more D: Partition and system configuration files)	

MUSE EveryWARE – Thin Client Solutions

Feature Specification	
Model	Citrix MetaFrame XPa with Feature Release 3 Proliant DL360 Server, rack-ready
Operating System (OS)	Windows 2000 Server, SP4
Processor Type	2 Intel Xeon or greater
Processor Speed	3.06 GHz (minimum)
Cache Memory	512-KB second level ECC cache
Memory (RAM)	2.0 GB SDRAM
Hard Drive Capacity	2 x 36.4 GB 10,000 rpm, U320 Universal Hard Drive, RAID 0+1
Floppy Drive	3.5 in., 1.44 MB/720 KB
CD-ROM	24x IDE
Power Supply	325W, Hot Plug, CE Mark Compliant
Integrated Keyboard Interface	PS/2 Keyboard Port
Integrated Pointing Device Interface	PS/2 Mouse Port
Integrated Serial Output	1
Integrated USB	2
Expansion Slots	(1) 64-bit, 100 MHz PCI-X
Network Controller	Two Compaq NC7781, PCI-X Gigabit Server Adapter
Integrated Video	Integrated ATI RAGE XL Video Controller with 8-MB SDRAM Video Memory
Form Factor	Rack (1U), (4.45 cm /1.75 in.)
Physical Specifications	
Dimensions	Height: 4.19 cm (1.65 in.) Width: 42.55 cm (16.75 in.) Depth: 63.5 cm (25 in.) Weight: 13 kg (28.6 lb) (approx.)
Power Requirements	
Range Line Voltage	100 to 240 VAC
Nominal Line Voltage	100 to 120 VAC/220 to 240 VAC
Rated Input Current	2.80A (110 V) to 1.40A (220 V)
Rated Input Frequency	50 to 60 Hz
Rated Input Power	200 W
Cooling/Heat Dissipation	1050 BTUs/hr
Environmental Specifications	
Temperature Range Operating	50° to 95° F/10° to 35° C
Temperature Range Shipping	-22° to 122° F/-30° to 50° C
Relative Humidity Operating	8% to 90%
Relative Humidity (non-condensing) Shipping	5% to 95%

For MUSE EveryWARE, customer must supply monitor/keyboard/mouse or KVM switch for rack mounted solution.

Networking Requirements

To ensure proper MUSE System operation on a network, some form of NetBIOS name resolution such as WINS, LMHOSTS or DNS must be used. All routers, bridges, WAN's, LAN's and other networking infrastructure must support Microsoft® TCP/IP implementation. Network "health" and performance will affect the MUSE System performance. Meeting the following minimum networking specifications will ensure proper performance by the MUSE System on your hospital's network. Customer to provide:

Physical Layer

All network cabling must conform to the pertinent IEEE 802.X standard. Network cabling shall be tested by the customer prior to system installation.

Connectivity

Each MUSE node must be reachable by other MUSE System nodes by sending a PING of 8 KB within 100 milliseconds (ms) on average.

- If the average response time is 50 ms or less, a MUSE client will have preferred performance.
- If the average response time is between 50 and 100 ms, a MUSE client will have satisfactory performance.

GE recommends that with any response time over 100 ms, consideration should be given to using MUSE EveryWARE.

Utilization

Ethernet bandwidth utilization, on average without the MUSE System running, must be less than 18% of the available bandwidth for each MUSE System node's network segment. Total Ethernet bandwidth utilization on average must be less than 30% and the maximum peak utilization level must be less than 55%. The broadcast levels on any segment that a MUSE System node is connected to may not exceed 10%.

Reliability

The overall error rate of a network segment must be less than 2% of the available bandwidth. The customer will be required to purchase System Integration Services from GE Healthcare when either of the following conditions occurs:

- The MUSE System network will be connected to any network.
- The MUSE System network will be used to support any products, devices or information other than GE Healthcare supported products specifically sold under this agreement. GE Healthcare System Integration Services integrates the standard MUSE System networks with customer-provided networks conforming to the above requirements.

Network Printing Requirements

The Network Printing feature of the MUSE System allows printing MUSE System-generated documents on the customer's networked printers.

- The Network Printer Task supports printers using PostScript Level 2 with PostScript software from Adobe (14 MB or more RAM recommended).
- The Network Printer Task supports local and networked printers served by units with the following operating systems:
 - Windows NT
 - NetWare

Certification

This product is certified to meet all applicable safety and regulatory requirements.

Warranty

Standard warranty is one year.

Ordering Information

Visit gehealthcare.com or contact your local GE Healthcare representative.



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